

On the fauna of casebearers from the centre of the European part of Russia

(Lepidoptera, Coleophoridae)

by

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Abstract: 47 species of the casebearers (Lepidoptera, Coleophoridae) are recorded from the centre of the European part of Russia.

The first investigation in the Lepidoptera from the centre of the European part of Russia was made about 200 years ago. In spite of it the fauna of Coleophoridae of this territory still has been almost completely unknown until present time.

In the course of our study, collections were made from 1984 to 1999 in some parts of Kaluga, Smolensk, Oryel provinces (I. V. SHMYTOVA leg.) and Tula province (L. V. BOLSHAKOV, C. A. RUABOV, A. F. LAKOMOV leg.).

This territory is mainly composed of forest as well as forest-steppe zones (fig. 1). Kaluga, Smolensk and some regions of Tula provinces are typical for the occurrence of coniferous (*Picea abies* (L.) KARST.), broad-leaved (*Quercus robur* L., *Ulmus* L., *Tilia cordata* MILL., *Fraxinus excelsior* L.) and small-leaved forests (*Betula* L., *Populus tremula* L., *Alnus* MILL., *Salix* L.). Pines (*Pinus sylvestris* L.) are spread here on the sandy lands.

The elements of steppe flora are met mainly in Tula and Oryel provinces, but along the valleys of rivers they penetrate to the north and north-west. It consists of species of *Festuca* L., *Koeleria* PERS., *Stipa* L., *Phleum* L., *Helictitrichon* Bess., *Poa* L., *Ranunculus* L., *Galium* L., *Anemone* L., *Salvia* L. and others. Unfortunately, the chernozems of Tula and Oryel provinces are exploited now and most of such "islands of steppes" have been destroyed.

A general check-list of Coleophoridae species from the centre of the European part of Russia is given. Taxonomic order corresponds mainly to the scheme of TOLL (1953, 1962) in which we have used some additions and modern systematic remarks (CAPUSE, 1971, 1973; FALKOVITSH, 1972, 1987).

Information is given in the check-list in the following way: material (the number of place on the map, collection dates and number of collected specimens); distribution in Russia (on the basis of the latest and our information); taxonomic and other remarks (if necessary; marked by symbol # – species are given for the first time for the European part of Russia). Synonyms are given only for the names most often used in literature.

The collections are conducted in the environs of the following geographical points (fig. 1): Smolensk province, 1 – Staroselye; 2 – Stanino; 3 – Tjakino; 4 – Vysokoe; 5 – Bolshoe Zakharyevskoe; 6 – Seltzo; 7 – Ozerki; Kaluga province, 8 – Ramensky; 9 – Gruzdovo; 10 – Grigorovo; 11 – Kogaki; 12 – Timofeevskoe; 12a – Simonovo; 13 – Nizhnee Somovo; 14 – Gilkovo; 15 – Tereben; 16 – Kireykov; 17 – Volosovo-Dudino; 18 – Novaja Derevnja; Tula province, 19 – Selukovo; Kaluga province, 20 – Grachevsky; 21 – Slagovishchi; 22 – Otrada; Tula province, 23 – Varushitzky; Kaluga province, 24 – Izvekovo; 25 – Sivkovo; 26 – Kaluga; 27 – Nekrasovo;

28 – Puchkovo; 29 – Mstikhino; 30 – Tarutino; 30a – Terniki; 31 – Verkhnya Vyrka; Tula province, 32 – Priokskaja; 33 – Vosemskoe; 34 – Kosaja Gora; 35 – Revjakino; 36 – Dedilovski Vyselki; 37 – Dalmatovka; 38 – Sadki; 39 – Matukhinsky; 40 – Jasnaja Poljana; 41 – Tula; 42 – Jasnogorsk; 43 – Shchekino; 44 – Okorokovo; 45 – Chekalin; 46 – Belogorodski; 47 – Plavsk; 48 – Meshcherino; 49 – Tatinki; 50 – Ivanovka; Oryel province, 51 – Zubari; 52 – Chernodje; 53 – Tagino.

The collected specimens are kept at the Museum of Regional Studies of Kaluga province, at Saratov University and in the Zoological Institute of the Russian Academy of Sciences (St. Petersburg).

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Checklist of species

1. *Metriotes lutarea* (HAWORTH, 1828) (= *modestella* DUPONCHEL, 1839)

40, 15.V.1988, 1 ♂; 19, 17.V.1991, 1 ♂; 29, 20.V.1993, 2 ♂♂; 26, 12.V.1994, 1 ♂; 21, 17.V.1994, 1 ♂; 24, 9.V.1995, 1 ♂; 22, 22.V.1995, 1 ♂; 38, 13.V.1997, 1 ♂; 53, 19.V.1998, 1 ♂.

Russia (Astrakhan, Volgograd, Saratov, Uljanovsk, Samara, Kaluga, Tula Distr.); Europe.

2. *Casas albella* (THUNBERG, 1788) (= *leucapennella* HÜBNER, 1796)

26, 15.V.1995, 1 ♂.

Russia (Volgograd, Saratov, Uljanovsk, Samara, Kaluga Distr., Ural, SW. Siberia). W. Palaearctic.

3. *Postvinculia lutipennella* (ZELLER, 1838)

26, 14.VII.1994, 1 ♂.

Russia (Volgograd, Saratov, Uljanovsk, Samara, Kaluga Distr., Ural); Europe, Asia Minor, Lebanon.

4. *Frederickoenigia flavipennella* (DUPONCHEL, 1843)

24, 18.VI.1994, 2 ♂♂.

Russia (North Caucasus, Volgograd, Saratov, Uljanovsk, Samara, Kaluga Distr., Ural); Europe, Caucasus, Asia Minor.

5. *Haploptilia serratella* (LINNAEUS, 1761) (= *fuscedinella* ZELLER, 1849)

29, ex larva 16.V.–12.VI.1993, 1 ♂; 25, 27.VI., 1., 4.VII.1993, 3 ♂♂, 1 ♀; 31, 3.VII.1994, 2 ♂♂; 13, 11.VI.1993, 3 ♂♂, 30.VI.1994, 1 ♂; 14, 19.VI.1994, 1 ♂; 27, 25.VI.1994, 1 ♂; 11, 14.VII.1994, 1 ♂, 4 ♀♀; 49, 1.VII.1995, 1 ♂; 26, 5.VII.1995, 1 ♂; 22, 19.VII.1995, 1 ♂; 24, 22.VII.1995, 1 ♂; 16, 25.VI.1996, 1 ♂; 3, 15.VII.1997, 1 ♂; 52, 22.VI.1998, 1 ♂.

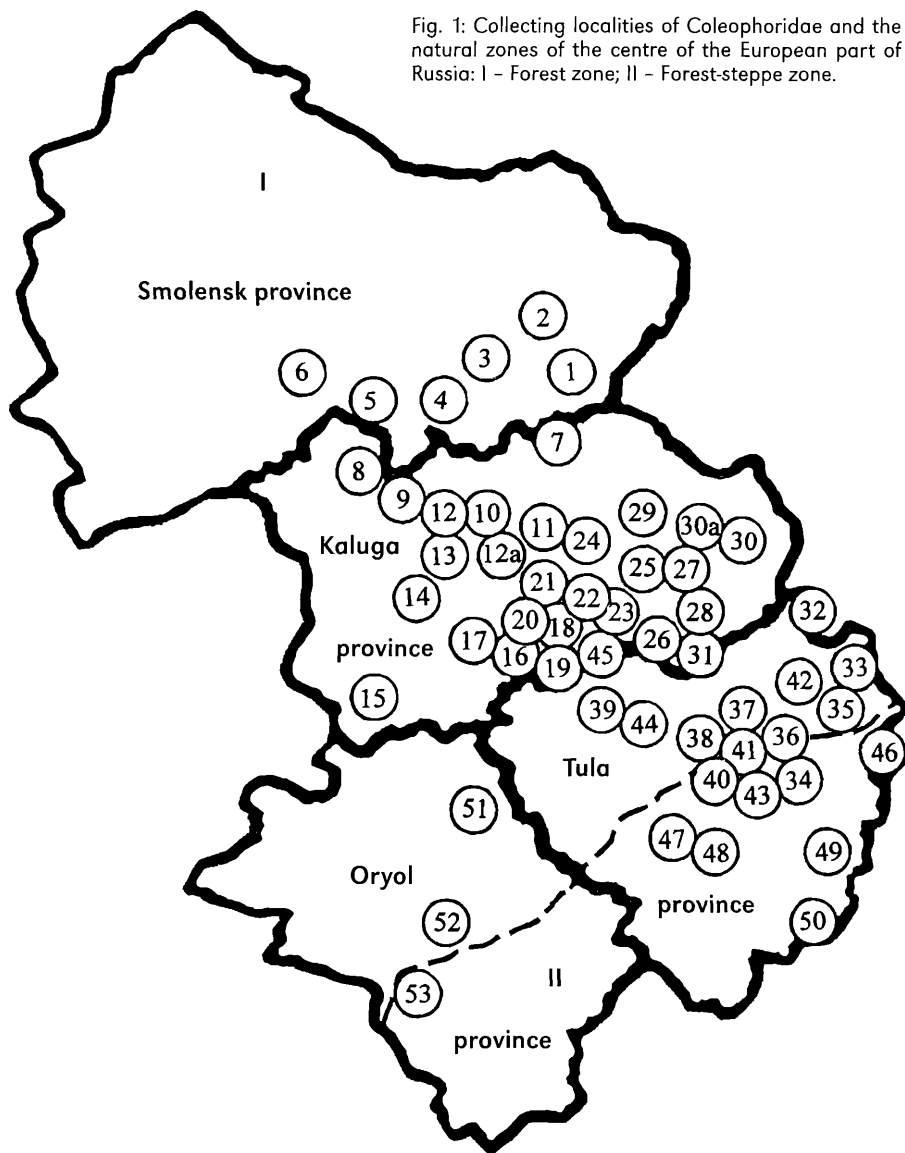
Russia (North Caucasus, Volgograd, Saratov, Uljanovsk, Samara, Kaluga, Tula, Oryol, Smolensk, Novosibirsk, Irkutsk Distr., Ural). Holarctic.

6. *H. prunifolia* (DOETS, 1944)

14, 15.VI.1994, 1 ♀.

Russia (North Caucasus, Volgograd, Saratov, Uljanovsk, Samara, Kaluga Distr.); Europe.

Fig. 1: Collecting localities of Coleophoridae and the natural zones of the centre of the European part of Russia: I – Forest zone; II – Forest-steppe zone.



7. *H. spinella* (SCHRANK, 1802) (= *cerasivorella* PACKARD, 1870; = *serratella* auct.)

12, 14.VI.1995, 1 ♂.

Russia (North Caucasus, Volgograd, Saratov, Uljanovsk, Samara, Kaluga Distr.). Holarctic.

8. *H. hemerobiella* (SCOPOLI, 1763).

49, 14.VII.1995, 1 ♂.

Russia (North Caucasus, Volgograd, Saratov, Uljanovsk, Samara, Tula Distr.); Europe, Syria, Turkmenistan, Armenia.

9. *Phylloscheme glitzella* (HOFMANN, 1869)

23, 10.VI.1997, 1 ♂.

Russia (Leningrad, Uljanovsk, Tula, Magadan Distr.). Transpalaeartic.

10. # *Tuberculia albitarsella* (ZELLER, 1849)

25, 27.VI.1994, 1 ♀.

Russia (North Caucasus, Kaluga Distr.); Europe.

11. *Kasyfia orbitella* (ZELLER, 1849)

13, 11.VI.1993, 1 ♂.

Russia (Volgograd, Saratov, Uljanovsk, Samara, Kaluga Distr., Ural, Altai). W. Palaearctic.

12. *Halvalbia lineolea* (HAWORTH, 1828) (= *crocogrammos* ZELLER, 1849)

17, 9.VI.1997, 1 ♂.

Russia (Saratov, Uljanovsk, Samara, Kaluga Distr.). W. Palaearctic (except northern part).

13. *Ascleriducta lithargyrinella* (ZELLER, 1849) (= *solitariella* HERRICH-SCHÄFFER, 1855)

37, 24.VI.1998, 1 ♂; 32, 11.VII.98, 1 ♂.

Russia (Volgograd, Saratov, Uljanovsk, Tula Distr.); Europe.

14. *Damophila deauratella* (LIENIG & ZELLER, 1846)

26, 27.VI.1993, 1 ♂; 12a, 16.VI.1995, 1 ♂; 18, 10.VI.1998, 1 ♂, 1 ♀; 6, 9.VII.1998, 1 ♀.

Russia (North Caucasus, Astrakhan, Volgograd, Saratov, Uljanovsk, Samara, Kaluga, Tula, Smolensk, Novosibirsk Distr., Altai, Ural). Transpalaeartic, introduced in North America.

15. *D. alcyonipennella* (KOLLAR, 1832) (= *cupariella* ZELLER, 1847)

14, 15.VI.1994, 1 ♂; 26, 30.VIII.1995, 1 ♀; 17, 9.VI.1997, 1 ♂.

Russia (North Caucasus, Astrakhan, Volgograd, Saratov, Uljanovsk, Samara, Kaluga, Novosibirsk, Irkutsk Distr., Altai, Ural, Yakutia). Transpalaeartic, introduced in North America, Australia and New Zealand.

16. *D. trifolii* CURTIS, 1832 (= *melilotella* SCOTT, 1861)

35, 4.VI.1991, 1 ♀; 25, 24, 29.VI.1994, 2 ♂♂; 12, 14.VI.1995, 1 ♂; 11, 17.VI.1995, 1 ♂; 26, 6.VI., 30.VIII.1995, 2 ♂♂; 24, 18.V.1996, 1 ♂; 16, 14.VIII.1996, 1 ♂; 9, 1.VI.1997, 1 ♂; 47, 1.VII.1998, 1 ♂.

17. *Coleophora anatipennella* (HÜBNER, 1796) (= *bernoulliella* Goeze, 1783)

26, 11.VI.1994, 1 ♂; 52, 22.VI.1998, 1 ♂.

Russia (North Caucasus, Saratov, Uljanovsk, Kaluga, Oryel Distr., Ural, Altai); Europe, Caucasus, Iran, Mongolia.

18. *C. kuehnella* (GOEZE, 1783) (= *palliatella* ZINCKEN, 1813; = *pallipennella* TREITSCHKE, 1833)
26, 16.VII.1993, 1 ♀; 25, 5.VII.1994, 1 ♂.
Russia (North Caucasus, Saratov, Samara, Kaluga Distr., Ural); Europe, the Caucasus, Asia Minor.
19. *C. ibipennella* ZELLER, 1849 (= *nemorum* HEINEMANN, 1854)
53, 23.VI.1998, 1 ♂.
Europe, Russia (North Caucasus, Saratov, Uljanovsk, Samara, Oryol Distr., Ural); North Africa, Lebanon.
20. *C. betulella* HEINEMANN & WOCKE, 1877
26, 11.VII.1994, 1 ♂; 11, 17.VI.1995, 1 ♂.
Russia (North Caucasus, Samara, Kaluga Distr.); Europe.
21. *C. zelleriella* HEINEMANN, 1854 (= *pannonicella* GOZMANY, 1956; = *platyphyllae* OKU, 1965)
29, 8.VIII.1993, 1 ♂.
Russia (North Caucasus, Saratov, Kaluga Distr., Far East); Europe, Azerbaidzhan, Iran, Japan.
22. *C. currucipennella* ZELLER, 1839 (= *nemorum* HEINEMANN, 1854; = *cristinae* CAPUSE, 1971)
18, 10.VI.1998, 1 ♂.
Russia (North Caucasus, Uljanovsk, Samara, Moscow, Belgorod, Kaluga, Novosibirsk Distr.). Transpalaeartic.
23. *Phagolamia auricella* (FABRICIUS, 1794) (= *paucinotella* TOLL, 1961)
23, 27.VI.1992, 1 ♂.
Russia (North Caucasus, Uljanovsk, Tula Distr.); Europe (except northern part).
24. *Apista gallipennella* (HÜBNER, 1796)
50, 5.VI.1997, 1 ♂.
Russia (Saratov, Samara, Tula, Novosibirsk Distr.); Europe, Asia Minor, SW. Siberia, Mongolia.
25. *Multicoloria conspicuella* (ZELLER, 1849)
24, 15.VII.1994, 1 ♂; 16, 24.VI.1996, 2 ♂♂.
Russia (North Caucasus, Astrakhan, Volgograd, Saratov, Kaluga Distr., Ural, Altai). Transpalaeartic.
26. *Suireia milvipennis* (ZELLER, 1839)
29, 31.VII.1993, 1 ♂.
Russia (North Caucasus, Leningrad, Uljanovsk, Kaluga, Irkutsk Dist.). Transpalaeartic.
27. # *S. alnifoliae* (BARASCH, 1934)
24, 5.VI.1993, 1 ♀; 17, 8.VI.1997, 1 ♀.
Russia (North Caucasus, Kaluga Distr.); Europe, Canada.
28. *Eupista ornatipennella* (HÜBNER, 1796)
33, 15.VI.1991, 1 ♀; 46, 2.VII.1992, 1 ♀; 48, 15.VII.1992, 1 ♂; 44, 29.V.1995, 1 ♂.

Russia (North Caucasus, Astrakhan, Volgograd, Saratov, Samara, Uljanovsk, Tula, Omsk Distr., Ural, Altai); Middle and South Europe, Caucasus, Asia Minor, Middle Asia (Kopetdagh).

29. *E. lixella* (ZELLER, 1849)

47, 27.V.1990, 1 ♂; 46, 1.VII.1992, 2 ♂♂, 1 ♀.

Russia (North Caucasus, Saratov, Samara, Uljanovsk, Tula Distr.), Europe, Caucasus, Asia Minor.

30. # *Quadratia fuscocuprella* (HERRICH-SCHÄFFER, 1855)

24, 5.VI.1993, 1 ♀.

Russia (Kaluga Distr., Far East); Europe.

31. *Perygra alticolella* (ZELLER, 1849) (= *caespititiella* auct.)

28, 7.VI.1993, 1 ♂; 14, 18.VI.1994, 1 ♀; 26, 25.V., 6.VI.1995, 2 ♀♀.

Russia (North Caucasus, Saratov, Samara, Uljanovsk, Kaluga Distr., Altai, Chukotka). Holarctic.

32. *P. glaucicolella* (WOOD, 1892)

22, 22.V.1995, 1 ♂; 9, 12.VI.1997, 1 ♂; 6, 9.VII.1998, 1 ♂.

Russia (North Caucasus, Volgograd, Saratov, Samara, Uljanovsk, Kaluga, Smolensk, Novosibirsk Distr.). Holarctic.

33. *Ecebalia therinella* (TENGENSTRÖM, 1848)

10, 15.VI.1995, 1 ♀; 52, 22.VI.1998, 1 ♀.

Russia (North Caucasus, Astrakhan, Volgograd, Saratov, Samara, Kaluga, Oryol, Irkutsk Distr., Altai, Yakutia). Transpalaeartic.

34. *Ecebalia pratella* (ZELLER, 1871)

34, 1.VI.1998, 1 ♂.

Russia (Saratov, Uljanovsk, Tula Distr.); Central and Southern Europe.

35. *E. vestianella* (LINNAEUS, 1758) (= *laripennella* ZETTERSTEDT, 1839)

25, 27.VI.1993, 1 ♀; 22, 13.VII.1995, 1 ♂; 24, 22.VII.1995, 1 ♀; 49, 26.VII.1995, 1 ♂; 15, 26.VII.1995, 3 ♂; 26, 1.VIII.1995, 1 ♂.

Russia (North Caucasus, Astrakhan, Volgograd, Saratov, Samara, Uljanovsk, Kaluga, Tula, Ural, Novosibirsk, Irkutsk Distr., Altai, Burjtiy, Yakutia). Transpalaeartic.

36. *E. gaviaepennella* (TOLL, 1952)

29, 8.VIII.1993, 1 ♂.

Russia (North Caucasus, Astrakhan, Volgograd, Saratov, Samara, Uljanovsk, Kaluga, Novosibirsk Distr., Altai, Burjtiy). West Palaeartic (southern part), Mongolia.

37. *E. sternipennella* (ZETTERSTEDT, 1839) (= *flavaginella* LIENIG & ZELLER, 1846)

26, 22.VII.1993, 2 ♀♀; 11, 14.VII.1994, 1 ♂, 1 ♀, 30.VII.1995, 1 ♀; 24, 24.VII.1994, 2 ♀♀; 10, 15.VI.1995, 1 ♂; 49, 1.VII., 2.VIII.1995, 2 ♂♂; 22, 13.VII.1995, 1 ♂; 41, 12.VIII.1997, 1 ♀.

Russia (North Caucasus, Astrakhan, Volgograd, Saratov, Samara, Uljanovsk, Tula, Kaluga Distr., Ural, Altai). West Palaearctic.

38. *E. versurella* (ZELLER, 1849) (= *amaranthivora* OKU, 1965)

25, 1.VII.1993, 1 ♀; 26, 14.VII.1994, 1 ♂; 12, 14.VI.1995, 1 ♂; 26, 30.VIII.1995, 1 ♀; 7, 28.VII.1997, 1 ♀; 52, 22.VI.1998, 1 ♂.

Russia (North Caucasus, Astrakhan, Volgograd, Saratov, Samara, Uljanovsk, Kaluga, Oryol, Novosibirsk Distr., Ural, Altai). Holarctic, recorded also from Argentina.

39. *Casignetella paripennella* (ZELLER, 1839)

16, 28.V.1996, 2 ♂♂.

Russia (Altai, Irkutsk, Kaluga Distr.); Europe.

40. *Casignetella granulatella* (ZELLER, 1849) (= *artemisiae* MÜHLIG, 1864)

16, 29.VII.1996, 1 ♂.

Russia (North Caucasus, Saratov, Samara, Kaluga Distr., Bashkiria, W. Siberia); Europe, Mongolia.

41. *C. trochilella* (DUPONCHEL, 1843)

25, 4.VII.1993, 1 ♀; 2, 15.VII.1997, 1 ♂; 5, 14.VII.1998, 1 ♂.

Russia (Saratov, Uljanovsk, Kaluga, Smolensk Distr.); Europe.

42. *C. peribenanderi* (TOLL, 1943) (= *benanderi* TOLL, 1942)

42, 25.V.1984, 1 ♂; 25, 27.VI.1994, 1 ♀; 20, 31.V.1995, 1 ♂.

Russia (North Caucasus, Astrakhan, Saratov, Kaluga, Tula Distr.); Europe.

43. *C. silenella* (HERRICH-SCHÄFFER, 1855)

37, 3.VI.1988, 1 ♂; 8, 17.VI.1996, 1 ♂.

Russia (Volgograd, Saratov, Samara, Uljanovsk, Tula, Kaluga Distr.). Transpalaearctic.

44. *C. artemisicolella* (BRUAND, [1855])

24, 22.VII.1994, 1 ♂.

Russia (Astrakhan, Volgograd, Saratov, Samara, Uljanovsk, Kaluga, Novosibirsk, Magadan Distr., Altai). Transpalaearctic.

45. *C. galbulipennella* (ZELLER, 1838) (= *otitae* ZELLER, 1838)

25, 27.VI., 4.VII.1994, 2 ♂♂.

Russia (North Caucasus, Uljanovsk, Kaluga Distr., Ural); Europe, Asia Minor, Iran.

46. *C. striatipennella* (TENGSTRÖM, [1848])

24, 29.V.1993, 4.VI., 6.VIII.1994, 3 ♂♂; 22, 21.V.1995, 1 ♂; 16, 14.VIII.1996, 1 ♂; 9, 12.VI.1997, 1 ♂; 19, 23.VII.1997; 52, 19.V.1998, 1 ♂; 51, 20.V.1998, 1 ♂, 1 ♀; 1 ♂; 18, 10.VI.1998, 1 ♂, 1 ♀; 41, 21.VII.1998, 1 ♂; 30, 27.VII.1998, 1 ♀; 30a, 28.VII.1998, 1 ♂.

Russia (Saratov, Samara, Uljanovsk, Kaluga, Tula, Oryol, Novosibirsk, Magadan Distr., Altai). Transpalaearctic.

47. *Klinzigedia wockeella* (ZELLER, 1849)

37, 24.VI.1989 and 23.VI.1997, 1 ♂, 1 ♀.

Russia (North Caucasus, Samara, Uljanovsk, Tula Distr.); Europe, Armenia, Azerbaidzhan, Asia Minor.

In general, 47 species are recorded on the territory of the centre of the european part of Russia. Three species: *Tuberculia albitarsella* (ZELLER, 1849), *Suireia alnifoliae* (BARASCH, 1934) and *Quadratia fuscocuprella* (HERRICH-SCHÄFFER, 1855) are noted for a first time from the territory under consideration.

In conclusion we would like to emphasize that the number of species might considerably increase in the course of a second investigation.

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